

Environmental Impact Statement

for the Basing of MV-22 and H-1 Aircraft in
Support of III MEF Elements in Hawaii



ABOUT THE MV-22



MV-22 Missions

- Deploy and operate from land and ship bases
- Assault transport
- Aerial delivery
- Evacuation operations
- Airborne Rapid Insertion/Extraction
- Tactical Recovery of Aircraft and Personnel (TRAP)

MV-22 Osprey

Manufactured by Bell-Boeing, the MV-22 is a tiltrotor Vertical Take-Off and Landing (VTOL) aircraft with multi-mission capabilities. The MV-22 is designed for combat, combat support, combat service support, and Special Operations missions worldwide. Variants being provided to the Department of Defense include the MV-22 (Marine Corps) and the CV-22 (Air Force). For the Marine Corps, the MV-22 will replace the aging CH-46E medium lift helicopters currently in service. At Marine Corps Base Hawaii, MAG-24 is an Aviation Combat Element (ACE) without CH-46E squadrons. With the proposed VMM squadrons, the medium-lift capability needed for assault support transport of combat troops, equipment, and supplies would be partially satisfied.

Capabilities

As a tiltrotor, the MV-22 operates as a helicopter or turboprop. This allows the hovering advantages of a helicopter along with the high speed and high altitude cruise capability of a turboprop airplane. The MV-22 can also be stowed aboard amphibious assault ships and aircraft carriers. The MV-22 is able to globally self-deploy with in-air refueling capabilities.



MV-22 Specifications	
Crew	2 Pilots, a Crew Chief, and an Aerial Observer/Gunner
Internal Cargo	<ul style="list-style-type: none">• Up to 20,000 pounds• Up to 24 combat-equipped troops• 12 litters with medical personnel and equipment
External Cargo	Up to 12,500 pounds
Length (overall)	58 feet
Width with Rotors	85 feet (rotor diameter 38 feet)
Height (overall)	22 feet (nacelles vertical position)
Speed	262 knots (maximum cruise)
Range (combat load)	325 nautical miles
Weapon Systems	<ul style="list-style-type: none">• Ramp-mounted M240D 7.62 machine gun• Ramp-mounted GAU-16 .50 caliber machine gun• Remote Guardian System GAU-17 7.62 mini-gun

